

- 1—INITIALIZE DATABASE AND APPROVED LIST

 2—RECEIVE DATAGRAM

 3—IDENTIFY DATAGRAM TYPE

 IF ATM SIGNALLING, ALLOW ACCESS,
 RECORD, AND COMPARE CONNECTION
 REQUEST TO DATABASE

 IF CONNECTION REQUEST APPROVED, ADD IT
 TO APPROVED LIST AND RETURN TO STEP 2,
 OTHERWISE, JUST RETURN TO STEP 2

 6—IF ATM DATA AND ON APPROVED LIST, ALLOW
 ACCESS, RECORD, RETURN TO STEP 2

 7—IF ATM DATA AND NOT ON APPROVED LIST,
 REJECT DATAGRAM AND RETURN TO STEP 2
 - FIG. 1 (PRIOR ART)

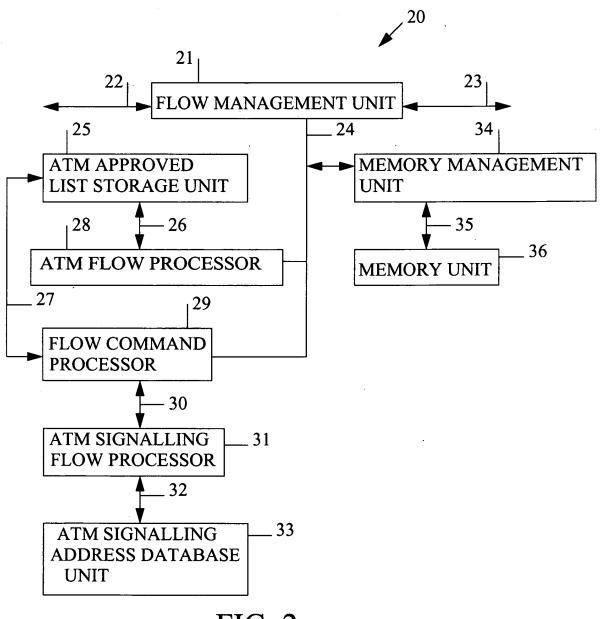


FIG. 2 (PRIOR ART)

41 —	NITIALIZE DATABASE, APPROVED LIST, AND DISAPPROVED LIST	
42 —	RECEIVE IP DATA PACKET	
43 —	COMPUTE FLOW TAG USING IP DATA PACKET	
44 —	DISCARD IP DATA PACKET AND RETURN TO TEP 42 IF FLOW TAG ON DISAPPROVED LIST	
45 —	ALLOW IP DATA PACKET ACCESS AND RETURN TO STEP 42 IF FLOW TAG ON APPROVED LIST	
46 [—]	COMPARE FLOW TAG TO DATABASE IF FLOW TAG NOT ON APPROVED LIST OR DISAPPROVED LIST	
47 —	DISCARD IP DATA PACKET, ADD FLOW TAG TO DISAPPROVED LIST, AND RETURN TO STEP 42 IF FLOW TAG NOT APPROVED BY DATABASE	3
48	ALLOW IP DATA PACKET ACCESS, ADD FLOW TAG TO APPROVED LIST AND RETURN TO STEP 42 IF FLOW TAG APPROVED BY DATABASE	Γ,

FIG. 3

EXTRACT IP SOURCE ADDRESS, IP DESTINATION ADDRESS, IP PROTOCOL, DATA, AND ANY UPPER LAYER PROTOCOL HEADER FROM IP DATA PACKET

72 — SET FLOW TAG FIELD FOR THE UPPER LAYER PROTOCOL HEADER TO ZEROS IF NO SUCH HEADER WAS EXTRACTED

73 — SET A USER-DEFINABLE NUMBER OF BIT LOCATIONS OF THE FLOW TAG TO ZERO

74 — COMPUTE FLOW TAG ADDRESS

FIG. 4

COMPARE FLOW TAG TO DATA STORED ON IP DISAPPROVED LIST, IF ANY, AT FLOW TAG ADDRESS

IF FLOW TAG MATCHES DATA THEN ON LIST, OTHERWISE NOT ON LIST

FIG. 5

COMPARE FLOW TAG TO DATA STORED ON IP

APPROVED LIST, IF ANY, AT FLOW TAG ADDRESS

79 IF FLOW TAG MATCHES DATA THEN ON LIST, OTHERWISE, NOT ON LIST

78

FIG. 6

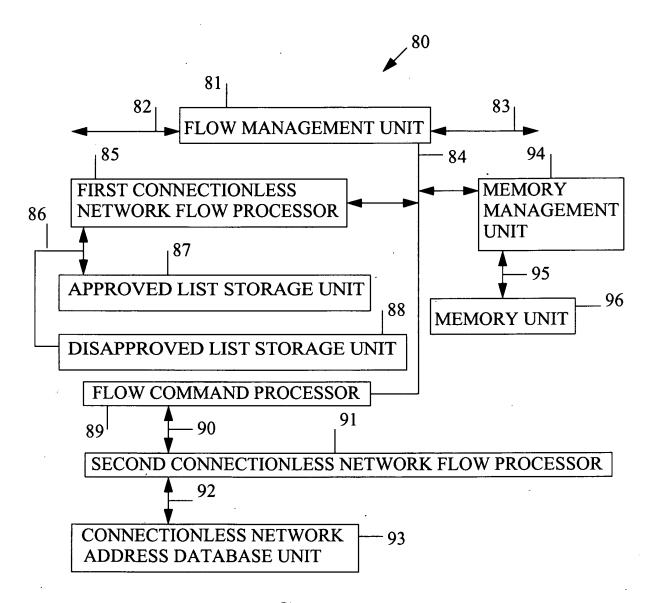


FIG. 7